

FIG.1

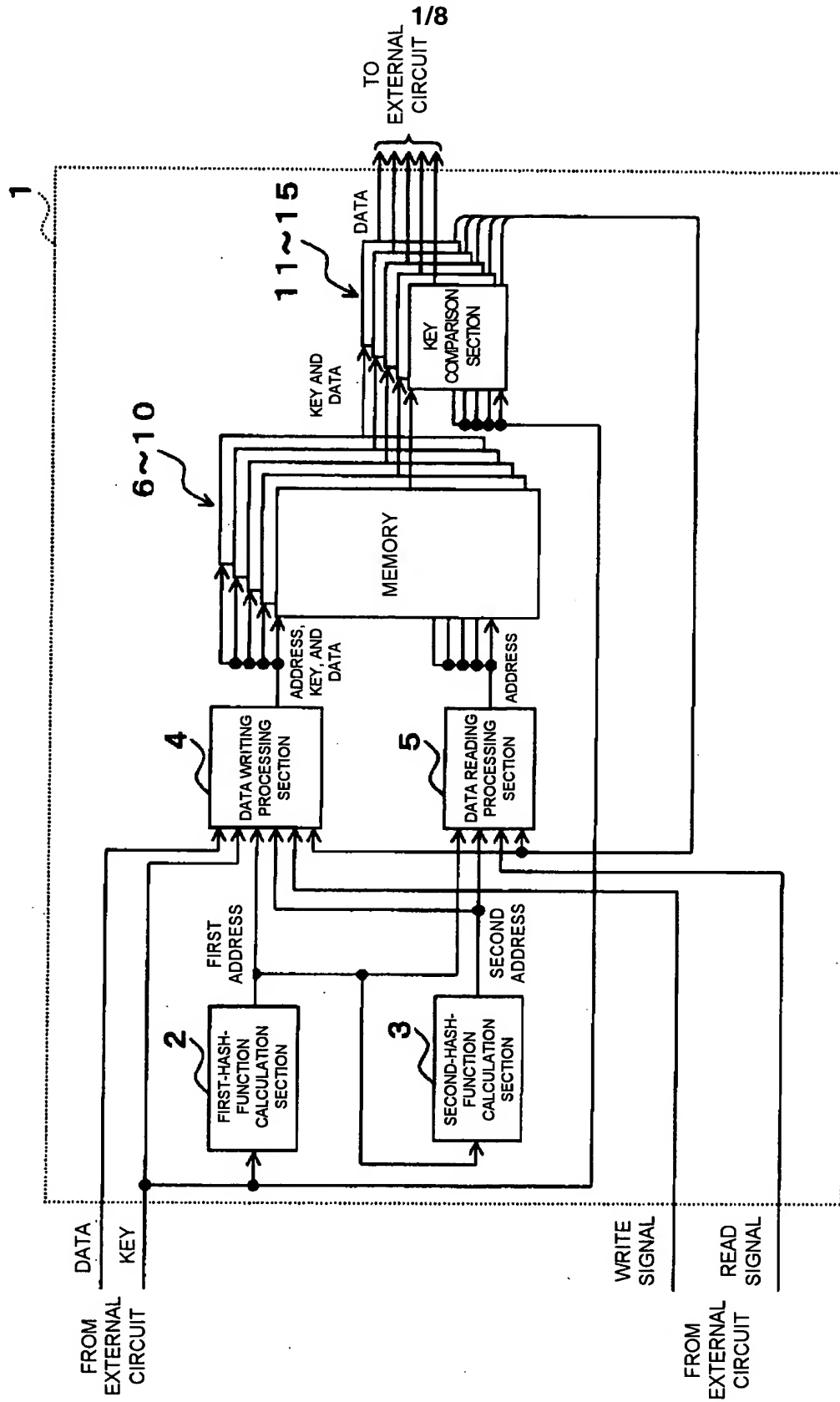


FIG.2

ADDRESS	MEMORY 6	MEMORY 7	MEMORY 8	MEMORY 9	MEMORY 10
A	KEY "a" DATA "a"	KEY "b" DATA "b"	KEY "c" DATA "c"	NOT USED	NOT USED
B	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
C	KEY "n" DATA "n"	KEY "m" DATA "m"	KEY "j" DATA "j"	KEY "k" DATA "k"	KEY "l" DATA "l"
D	KEY "i" DATA "i"	KEY "o" DATA "o"	NOT USED	NOT USED	NOT USED
E	KEY "p" DATA "p"	NOT USED	NOT USED	NOT USED	NOT USED

A=hash1 (a) ≠hash1 (b) ≠hash1 (c)
B=hash2 (c)
C=hash1 (h) ≠hash1 (i) ≠hash1 (j) ≠hash1 (k) ≠hash1 (l)
D=hash1 (n) ≠hash1 (o)
E=hash1 (p)

FIG.3

ADDRESS	MEMORY 6	MEMORY 7	MEMORY 8	MEMORY 9	MEMORY 10
A	KEY "a" DATA "a"	KEY "b" DATA "b"	KEY "c" DATA "c"	KEY "d" DATA "d"	NOT USED
B	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
C	KEY "h" DATA "h"	KEY "i" DATA "i"	KEY "j" DATA "j"	KEY "k" DATA "k"	KEY "l" DATA "l"
D	KEY "n" DATA "n"	KEY "o" DATA "o"	NOT USED	NOT USED	NOT USED
E	KEY "p" DATA "p"	NOT USED	NOT USED	NOT USED	NOT USED

A=hash1 (a) ≠hash1 (b) ≠hash1 (c) ≠hash1 (d)
B=hash2 (c)
C=hash1 (h) ≠hash1 (i) ≠hash1 (j) ≠hash1 (k) ≠hash1 (l)
D=hash1 (n) ≠hash1 (o)
E=hash1 (p)

FIG.4

ADDRESS	MEMORY 6	MEMORY 7	MEMORY 8	MEMORY 9	MEMORY 10
A	KEY "a" DATA "a"	KEY "b" DATA "b"	KEY "c" DATA "c"	KEY "d" DATA "d"	KEY "e" DATA "e"
B	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
C	KEY "h" DATA "g"	KEY "i" DATA "f"	KEY "j" DATA "e"	KEY "k" DATA "d"	KEY "l" DATA "c"
D	KEY "n" DATA "m"	KEY "o" DATA "l"	NOT USED	NOT USED	NOT USED
E	KEY "p" DATA "q"	NOT USED	NOT USED	NOT USED	NOT USED

A=hash1 (a)=hash1 (b)=hash1 (c)=hash1 (d)=hash1 (e)
B=hash2 (c)
C=hash1 (h)=hash1 (i)=hash1 (j)=hash1 (k)=hash1 (l)
D=hash1 (n)=hash1 (o)
E=hash1 (p)

FIG.5

ADDRESS	MEMORY 6	MEMORY 7	MEMORY 8	MEMORY 9	MEMORY 10
A	KEY "a" DATA "a"	KEY "b" DATA "b"	KEY "c" DATA "c"	KEY "d" DATA "d"	KEY "e" DATA "e"
B	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
C	KEY "h" DATA "h"	KEY "i" DATA "i"	KEY "j" DATA "j"	KEY "k" DATA "k"	KEY "l" DATA "l"
D	KEY "n" DATA "n"	KEY "o" DATA "o"	NOT USED	NOT USED	KEY "r" DATA "r"
E	KEY "p" DATA "p"	NOT USED	NOT USED	NOT USED	NOT USED

A=hash1 (a)≠hash1 (b)≠hash1 (c)≠hash1 (d)≠hash1 (e)≠hash1 (f)
B=hash2 (c)
C=hash1 (h)≠hash1 (i)≠hash1 (j)≠hash1 (k)≠hash1 (l)
D=hash1 (n)≠hash1 (o)≠hash2 (A=hash1 (f))
E=hash1 (p)

FIG.6

ADDRESS	MEMORY 6	MEMORY 7	MEMORY 8	MEMORY 9	MEMORY 10
A	KEY "a" DATA "α"	KEY "b" DATA "β"	KEY "c" DATA "γ"	KEY "d" DATA "δ"	KEY "e" DATA "ε"
B	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
C	KEY "f" DATA "φ"	KEY "g" DATA "χ"	KEY "h" DATA "ψ"	KEY "i" DATA "ξ"	KEY "j" DATA "η"
D	KEY "n" DATA "ς"	KEY "o" DATA "ο"	NOT USED	KEY "b" DATA "η"	KEY "r" DATA "ς"
E	KEY "p" DATA "ω"	NOT USED	NOT USED	NOT USED	NOT USED

A=hash1 (a) ≠hash1 (b) ≠hash1 (c) ≠hash1 (d) ≠hash1 (e) ≠hash1 (f) ≠hash1 (g)
B=hash2 (c)
C=hash1 (h) ≠hash1 (i) ≠hash1 (j) ≠hash1 (k) ≠hash1 (l)
D=hash1 (n) ≠hash1 (o) ≠hash2 (A=hash1 (f)) ≠hash2 (A=hash1 (g))
E=hash1 (p)

FIG.7

ADDRESS	MEMORY 6	MEMORY 7	MEMORY 8	MEMORY 9	MEMORY 10
A	KEY "a" DATA "α"	KEY "b" DATA "β"	KEY "c" DATA "γ"	KEY "d" DATA "δ"	KEY "e" DATA "ε"
B	NOT USED	NOT USED	NOT USED	NOT USED	KEY "m" DATA "ν"
C	KEY "h" DATA "θ"	KEY "i" DATA "ι"	KEY "j" DATA "κ"	KEY "k" DATA "λ"	KEY "l" DATA "μ"
D	KEY "n" DATA "η"	KEY "o" DATA "ο"	NOT USED	KEY "p" DATA "π"	KEY "r" DATA "ς"
E	KEY "p" DATA "ρ"	NOT USED	NOT USED	NOT USED	NOT USED

A=hash1 (a)≠hash1 (b)≠hash1 (c)≠hash1 (d)≠hash1 (e)
B=hash2 (C≠hash1 (m))
C=hash1 (h)≠hash1 (i)≠hash1 (j)≠hash1 (k)≠hash1 (l)≠hash1 (m)
D=hash1 (n)≠hash1 (o)≠hash2 (A≠hash1 (f))≠hash2 (A≠hash1 (g))
E=hash1 (p)

FIG.8

